CLAIM AMENDMENTS

1. (currently amended) A method of load balancing in a control node, the method

comprising:

maintaining a list of downstream proxies, wherein the downstream proxies implement the

SIP protocol;

receiving, at the control node, load information from a plurality of the downstream

proxies in the list;

determining a delay time between the control node and the downstream proxies, wherein

the delay time is determined by the control node transmitting an invalid SIP message to each of

the downstream proxies in the plurality, the control node receiving a respective SIP response

message from each of the downstream proxies in the plurality rejecting the respective invalid SIP

message, and the control node calculating, as the delay time, a difference between the

transmission of each invalid SIP message and the receiving of each corresponding SIP response

message;

assigning a weight to each of the downstream proxies in the list, the weight based in part

upon the respective calculated delay time for each downstream proxy; and

distributing a traffic load to one of the plurality of downstream proxies based in part on

the weight of each of the downstream proxies.

2-4. (cancelled)

5. (previously presented) The method of claim 1, wherein the weight assigned to

each downstream proxy is also based on a pre-weighting of each downstream proxy.

6. (currently amended) A readable memory device for load balancing, the device

comprising:

means for maintaining a list of the plurality of downstream proxies;

means for receiving load information from each of the plurality of downstream proxies:

means for calculating a delay time between [[the]] a control node and each of the

downstream proxies, wherein the delay time is determined by the control node transmitting an invalid SIP message to each of the downstream proxies in the plurality, the control node

receiving a respective SIP response message from each of the downstream proxies in the

plurality rejecting the respective invalid SIP message, and the control node calculating, as the

delay time, a difference between the transmission of each invalid SIP message and the receiving

down time, a difference covered the transmission of each invalid of message and the receiving

of each corresponding SIP response message;

means for assigning a weight to each of the respective downstream proxies in the list, the

weight based in part upon the respective load information received from [[the]] each respective

downstream proxies proxy and also in part on the calculated delay time between the control node

and each respective downstream proxy; and

means for assigning a load to one of the downstream proxies based in part on the weight

of the downstream proxies.

(cancelled)

8. (currently amended) A system for providing load balancing, the system

comprising:

a plurality of proxies;

a control node coupled to the plurality of proxies, the control node receiving load

information from each of the plurality of proxies, and calculating a delay time between the

control node and the downstream proxies from the plurality of proxies, wherein the delay time is

determined by the control node transmitting an invalid SIP message to each of the proxies in the

plurality, the control node receiving a respective SIP response message from each of the proxies

in the plurality rejecting the respective invalid SIP message, and the control node calculating, as

the delay time, a difference between the transmission of each invalid SIP message and the

receiving of each corresponding SIP response message, wherein the control node assigns a

respective weight to each of the proxies in the list, the respective weight based upon the load

information and the calculated delay times for each respective proxy, and

wherein the control node distributes a traffic load to one of the plurality of proxies based

in part on the weight of each of the proxies.

9 (cancelled)

10 (currently amended) A method for assigning weights to a group of proxies,

wherein a control node is coupled to the group of proxies and the control node maintains a

threshold value, the method comprising the steps of:

sending, from the control node, a message to each of the proxies;

receiving a reply from each of the proxies, wherein each reply is in response to the

respective message sent to the proxies;

determining a response time for each of the messages sent to each of the proxies;

assigning a weight to each of the proxies based upon the response time of the message

sent to the proxies;

receiving a new call:

determining a call volume;

if the call volume is below the threshold low value, assigning the new call to a [[given]]

first proxy of the group of proxies based on a round robin protocol; and

if the call volume is above the threshold value, assigning the new call to the given a

second proxy of the group of proxies based upon the weights assigned to each proxy.

11 (cancelled)

(currently amended) The method of claim 10 wherein the messages sent to the 12

proxies are [[a]] SIP INVITE messages.

13 (currently amended) A system for load balancing, the system comprising:

a plurality of proxies, wherein the proxies implement the SIP protocol; and

a control node coupled to the plurality of proxies, the control node receiving a new call

from a user on a network, the control node including a threshold call load value, the control node

including a table of weights, each of the weights associated with one of the plurality of proxies.

the weights determined in part by a delay time between the control node and the proxies, if the

control node determines that call volume is below the threshold call load value, then distributing

the new call to a first proxy of the plurality of proxies in a round robin fashion, if the control

node determining determines that the call volume is above the threshold call load value [[and]]

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then distributing the new call to a second proxy of the plurality of proxies that has the lowest

weight.

14-15. (cancelled)

16. (previously presented) The system of claim 13 wherein the control node receives

messages from each respective proxy of the plurality of proxies, each message indicating the

loading of the respective proxy, and wherein the weights for the respective proxy is also based

on the loading of the respective proxy.

17-25. (cancelled)

26. (previously presented) A method, performed by a control node, for the control

node to distribute load to a first and second proxy, wherein the control node includes a threshold

value, the method comprising:

transmitting a first message to the first proxy, receiving a first reply from the first proxy,

wherein the first reply is in response to the first message, and determining a first delay time

between the transmitting of the first message and the receiving of the first reply;

transmitting a second message to the second proxy, receiving a second reply from the

second proxy, wherein the second reply is in response to the second message, and determining a

second delay time between the transmitting of the second message and the receiving of the

second reply;

assigning weights to the first proxy and the second proxy based on the first delay time

and the second delay time, respectively;

receiving incoming calls;

if a current call volume is below the threshold value, assigning the incoming calls to the

first proxy and the second proxy based on a round robin protocol; and

if the current call volume is above the threshold value, assigning the incoming calls to the

first proxy and the second proxy based on their respective weights.

27. (previously presented) The method of claim 26, wherein the first message and the

second message are INVITE messages.

28. (previously presented) The method of claim 27, wherein the first message and the

second message are bad INVITE messages, and wherein the first reply and the second reply are

REJECT messages.

29. (previously presented) The method of claim 26, wherein the control node assigns

weights to the first proxy and the second proxy also based on a pre-weighting of the first proxy

and the second proxy.

30. (previously presented) The method of claim 26, further comprising:

querying a first process on the first proxy; and

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querying a second process on the second proxy, wherein the control node assigns weights

to the first proxy and the second proxy also based information gathered from querying the first

proxy and the second proxy.

31. (currently amended) The method device of claim 6, wherein the load information

received from each of the plurality of respective downstream proxies is determined by querying a

process at each respective downstream proxy.

32. (currently amended) The method system of claim 8, wherein the load information

received from each of the plurality of downstream proxies is determined by querying a process at

each respective proxy.

33. (new) The method of claim 5, wherein the pre-weighting is manually configured.

(new) The method of claim 5, wherein the pre-weighting is determined 34.

dynamically via processes running on each downstream proxy.

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